PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 66267-0011	FOR FURTHER ACTION See Notification of Transmittal of Internation Preliminary Examination Report (Form PCT		of Transmittal of International amination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/mon	th/year)	Priority date (day/month/year)		
PCT/US05/04291	11 February 2005 (11.02.2005)		11 February 2004 (11.02.2004)		
International Patent Classification (IPC)					
IPC: A61B 5/0468 (2006.01), 5/0472 USPC: 600/508,509,515,516,517	(2006.01)				
Applicant					
HENRY FORD HEALTH SYSTEM	<u> </u>				
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of sheets, including this cover sheet. 					
2. This REPORT consists of	<u>u total oi</u>				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a	total of sheets.				
3. This report contains indica	ntions relating to the following i	tems:			
I Basis of the rep	ort				
II Priority					
III Non-establishm	ent of report with regard to nov	elty, inventive s	tep and industrial applicability		
IV Lack of unity o	IV Lack of unity of invention				
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
VI Certain documents cited					
VII Certain defects in the international application					
VIII Certain observations on the international application					
Date of submission of the demand	Date	of completion of	of this report		
08 November 2005 (08.11.2005)	18 M	1ay 2006 (18.05.20	006)		
Name and mailing address of the IPEA/US					
Mail Stop PCT, Attn: IPEA/ US Commissioner for Patents Carl H. Layno					
P.O. Box 1450 Alexandria, Virginia 22313-1450	Tele	phone No. (571)	272-4949		
Facsimile No. (571) 273-3201 Telephone No. (571) 272-4545 Form PCT/IPEA/409 (cover sheet)(July 1998)					

$^{\iota}$ INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.	
PCT/US05/04291	

1. With regard to the elements of the international application:* the international application as originally filed. the description: pages L19	I.	Basis	s of the report
the description: pages 1:19	1.	With	regard to the elements of the international application:*
pages NONE, filed with the demand pages NONE, filed with the demand pages NONE, filed with the demand pages NONE, as originally filed pages NONE, as a originally filed pages NONE, as a mended (together with any statement) under Article 19 pages NONE, filed with the demand pages NONE, filed with the demand pages NONE, filed with the demand pages NONE, filed with the letter of		\boxtimes	the international application as originally filed.
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US05/04291

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicabilit citations and explanations supporting such statement						
1. STATEMENT						
Novelty (N)	Claims 4, 8-21, 28, 29, and 33-39	YES				
• • •	Claims 1-3, 5-7, 22-27, and 30-32	NO				
Inventive Step (IS)	Claims 4, 8-21, 28, 29, and 33-39	YES				
• • •	Claims 1-3, 5-7, 22-27, and 30-32	NO				
Industrial Applicability (IA)	Claims 1-39	YES				
	Claims NONE	NO				

2. CITATIONS AND EXPLANATIONS

Claims 1-3, 5-7, 22-27, and 30-32 lack novelty under PCT Article 33(2) as being anticipated by Taha et al '090-B2. The Taha et al '090-B2 patent describes a method and apparatus for the serial comparison of electrocardiograms. Fig.2A shows that a baseline ECG value is acquired from the patient during a stable cardiac period 100. This baseline is stored in system memory 102 and later compared with recently acquired ECG data 108. A plurality of QRS complex segments are compared (Figs. 2B and 2C) including QT interval 138. If the QT interval exceeds the baseline and is greater than 450 ms, then a "severity value' is assigned to the QT interval block. If the QT interval exceeds 480 ms, then a "high severity" value is assigned (col.8, lines 40-48). In regard to claim 3, this analysis is performed automatically by management module 26 (Fig.1). In regard to claims 6, 22, and 25, the detection of prolonged QT interval is indicative of acute ischemia (i.e. infarction) (col.8, lines 29-30).

Claims 4, 8-21, 28, 29, and 33-39 meet the critereia set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a method and corresponding ECG monitoring apparatus capable of performing an electrocardiogram comparison manually (claim 4), comparing activation recorvery interval data (claims 8, 28, 33, 38), comparing monophasic action potential data (claims 9, 29, 34, 39), performing ECG comparisons after a clinical procedure (claims 10-21), or detecting prolonged myocardial repolarization as an indicator of "ischemic preconditioning" (claims 35-39).

Claims 1-39 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.